

OBJECT POSITION DETECTOR

Patent number: WO9607981
Publication date: 1996-03-14
Inventor: ALLEN TIMOTHY P (US); GILLESPIE DAVID (US);
MILLER ROBERT J (US); STEINBACH GUNTER (US)
Applicant: SYNAPTICS INC (US); ALLEN TIMOTHY P (US);
GILLESPIE DAVID (US); MILLER ROBERT J (US);
STEINBACH GUNTER (US)
Classification:
- **International:** G06K11/16
- **European:** G06F3/033D2G, G06F3/033Z4S2
Application number: WO1995US11180 19950901
Priority number(s): US19940300387 19940902

Also published as:

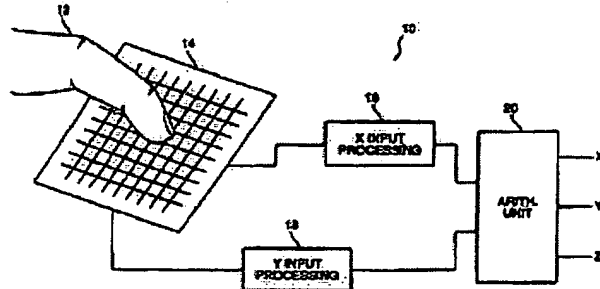
EP0777888 (A1)
EP0777888 (B1)

Cited documents:

US5374787
EP0609021
EP0574213

Abstract of WO9607981

A proximity sensor system includes a sensor matrix array having a characteristic capacitance on horizontal and vertical conductors connected to sensor pads. The capacitance changes as a function of the proximity of an object or objects to the sensor matrix. The change in capacitance of each node in both the X and Y directions of the matrix due to the approach of an object is converted to a set of voltages in the X and Y directions. These voltages are processed by digital circuitry to develop electrical signals representative of the centroid of the profile of the object, i.e., its position in the X and Y dimensions. Noise reduction and background level setting techniques inherently available in the architecture are employed.



Data supplied from the esp@cenet database - Worldwide

Best Available Copy